

CLAIMS:

1. A variable inner volume ratio-mode inverter screw compressor comprising:
a variable inner volume ratio valve (19) changing completion time of a compression step
in a screw compression section (39) to make inner volume ratio variable;

5 an electric motor (11) rotationally driving the screw compression section (39); and
an inverter (15) controlling rotational frequency of the electric motor (11)
corresponding to a load.

2. The variable inner volume ratio-mode inverter screw compressor as set forth
10 in claim 1, comprising:

a control section (36, 51, 27, 28) controlling an opening degree of the variable inner
volume ratio valve (19) based on suction side pressure and discharge side pressure of the
screw compression section (39) and rotational frequency of the electric motor (11).